

Title (en)
TUBE EXPANDING

Publication
EP 0041835 A3 19820310 (EN)

Application
EP 81302488 A 19810604

Priority
US 15654380 A 19800605

Abstract (en)
[origin: EP0041835A2] In a tube expanding technique for securing a sleeve (22) within a tube (24), fluid pressure is applied via a tube expander by incrementally decreasing the volume of the fluid system exclusive of the expander, or by incrementally increasing the mass of the fluid within the system. The system pressure and the rate of pressure increase are monitored as a function of incremental change in volume or mass. A decrease in the rate is indicative of the onset of plastic expansion of the sleeve (22) or tube (24), as the case may be. By determining this point, outer diameter of the tube may be accurately controlled to within 0.15 mm. The tube expander includes a distensible sealed bladder (10) for applying the expanding pressure, the bladder (10) containing the system fluid.

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IPC 8 full level
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CPC (source: EP KR)
B21D 26/02 (2013.01 - KR); **B21D 26/033** (2013.01 - KR); **B21D 39/04** (2013.01 - EP); **B21D 39/203** (2013.01 - EP); **B23P 11/02** (2013.01 - KR)

Citation (search report)
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• US 3962767 A 19760615 - BYERLEY WILBUR M, et al
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